

Abu Bakar Mohamad

List of Publications by Year in descending order

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papers

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44069

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173
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173
docs citations

173
times ranked

8049
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites. <i>Molecules</i> , 2015, 20, 22833-22847.	3.8	487
2	Review on the development of natural dye photosensitizer for dye-sensitized solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 386-396.	16.4	316
3	Molecular dynamic and quantum chemical calculations for phthalazine derivatives as corrosion inhibitors of mild steel in 1M HCl. <i>Corrosion Science</i> , 2012, 56, 176-183.	6.6	309
4	Visible light photocatalytic activity of Fe ³⁺ -doped ZnO nanoparticle prepared via sol-gel technique. <i>Chemosphere</i> , 2013, 91, 1604-1611.	8.2	240
5	Electrochemical and quantum chemical calculations on 4,4-dimethyloxazolidine-2-thione as inhibitor for mild steel corrosion in hydrochloric acid. <i>Journal of Molecular Structure</i> , 2010, 969, 233-237.	3.6	193
6	On the inhibition of mild steel corrosion by 4-amino-5-phenyl-4H-1, 2, 4-triazole-3-thiol. <i>Corrosion Science</i> , 2010, 52, 526-533.	6.6	183
7	Experimental and theoretical study on the inhibition performance of triazole compounds for mild steel corrosion. <i>Corrosion Science</i> , 2010, 52, 3331-3340.	6.6	166
8	Recent progress in nitrogen-doped carbon and its composites as electrocatalysts for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9370-9386.	7.1	157
9	The effect of process parameters on the size of ZnO nanoparticles synthesized via the sol-gel technique. <i>Journal of Alloys and Compounds</i> , 2013, 550, 63-70.	5.5	156
10	Hydrogen production from steam-methanol reforming: thermodynamic analysis. <i>International Journal of Hydrogen Energy</i> , 2000, 25, 47-53.	7.1	140
11	Dye-sensitized solar cells: Development, structure, operation principles, electron kinetics, characterisation, synthesis materials and natural photosensitisers. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 183-213.	16.4	139
12	An overview on cellulose-based material in tailoring bio-hybrid nanostructured photocatalysts for water treatment and renewable energy applications. <i>International Journal of Biological Macromolecules</i> , 2017, 103, 1232-1256.	7.5	131
13	The Antioxidant Activity of New Coumarin Derivatives. <i>International Journal of Molecular Sciences</i> , 2011, 12, 5747-5761.	4.1	130
14	Nafion/silicon oxide/phosphotungstic acid nanocomposite membrane with enhanced proton conductivity. <i>Journal of Membrane Science</i> , 2009, 327, 32-40.	8.2	115
15	Synthesis and characterization of a novel organic corrosion inhibitor for mild steel in 1M hydrochloric acid. <i>Results in Physics</i> , 2018, 8, 728-733.	4.1	111
16	Molecular dynamics and quantum chemical calculation studies on 4,4-dimethyl-3-thiosemicarbazide as corrosion inhibitor in 2.5M H ₂ SO ₄ . <i>Materials Chemistry and Physics</i> , 2011, 129, 660-665.	4.0	110
17	Effect of solvents on the extraction of natural pigments and adsorption onto TiO ₂ for dye-sensitized solar cell applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 130-137.	3.9	103
18	Synergistic effect of potassium iodide with phthalazone on the corrosion inhibition of mild steel in 1.0 M HCl. <i>Corrosion Science</i> , 2011, 53, 3672-3677.	6.6	102

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19	Application of response surface methodology (RSM) for optimisation of COD, NH ₃ -N and 2,4-DCP removal from recycled paper wastewater in a pilot-scale granular activated carbon sequencing batch biofilm reactor (GAC-SBBR). <i>Journal of Environmental Management</i> , 2013, 121, 179-190.	7.8	101
20	Synthesis and characterization of a novel eco-friendly corrosion inhibition for mild steel in 1% M hydrochloric acid. <i>Scientific Reports</i> , 2016, 6, 19890.	3.3	101
21	The kinetics of polyphenol degradation during the drying of Malaysian cocoa beans. <i>International Journal of Food Science and Technology</i> , 2005, 40, 323-331.	2.7	98
22	Antifungal and Antioxidant Activities of Pyrrolidone Thiosemicarbazone Complexes. <i>Bioinorganic Chemistry and Applications</i> , 2012, 2012, 1-6.	4.1	97
23	Nafion/Pd-SiO ₂ nanofiber composite membranes for direct methanol fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9474-9483.	7.1	96
24	A comparative study of the corrosion inhibition of mild steel in sulphuric acid by 4,4-dimethyloxazolidine-2-thione. <i>Corrosion Science</i> , 2009, 51, 2393-2399.	6.6	95
25	Novel Corrosion Inhibitor for Mild Steel in HCl. <i>Materials</i> , 2014, 7, 662-672.	2.9	95
26	Inhibition of Mild Steel Corrosion in Hydrochloric Acid Solution by New Coumarin. <i>Materials</i> , 2014, 7, 4335-4348.	2.9	94
27	An overview of the electrochemical performance of modified graphene used as an electrocatalyst and as a catalyst support in fuel cells. <i>Applied Catalysis A: General</i> , 2015, 497, 198-210.	4.3	88
28	Antifungal Activities of New Coumarins. <i>Molecules</i> , 2012, 17, 5713-5723.	3.8	85
29	Physicochemical characterization of cellulose nanocrystal and nanoporous self-assembled CNC membrane derived from <i>Ceiba pentandra</i> . <i>Carbohydrate Polymers</i> , 2017, 157, 1892-1902.	10.2	85
30	Antimicrobial and Antioxidant Activities of New Metal Complexes Derived from 3-Aminocoumarin. <i>Molecules</i> , 2011, 16, 6969-6984.	3.8	84
31	New Coumarin Derivative as an Eco-Friendly Inhibitor of Corrosion of Mild Steel in Acid Medium. <i>Molecules</i> , 2015, 20, 366-383.	3.8	84
32	Hydrogen purification using compact pressure swing adsorption system for fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2771-2777.	7.1	81
33	Optimization of process parameters using D-optimal design for synthesis of ZnO nanoparticles via sol-gel technique. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 99-105.	5.8	75
34	Application of dyes extracted from <i>Alternanthera dentata</i> leaves and <i>Musa acuminata</i> bracts as natural sensitizers for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 487-498.	3.9	73
35	A Novel Hydrazinecarbothioamide as a Potential Corrosion Inhibitor for Mild Steel in HCl. <i>Materials</i> , 2013, 6, 1420-1431.	2.9	72
36	Sulphonamides as corrosion inhibitor: Experimental and DFT studies. <i>Journal of Molecular Structure</i> , 2017, 1138, 27-34.	3.6	72

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37	Inhibition Effects of a Synthesized Novel 4-Aminoantipyrine Derivative on the Corrosion of Mild Steel in Hydrochloric Acid Solution together with Quantum Chemical Studies. <i>International Journal of Molecular Sciences</i> , 2013, 14, 11915-11928.	4.1	69
38	Inhibition of Mild Steel Corrosion in Sulfuric Acid Solution by New Schiff Base. <i>Materials</i> , 2014, 7, 787-804.	2.9	67
39	Experimental and theoretical studies of benzoxazines corrosion inhibitors. <i>Results in Physics</i> , 2017, 7, 4013-4019.	4.1	66
40	Experimental and theoretical studies of Schiff bases as corrosion inhibitors. <i>Chemistry Central Journal</i> , 2018, 12, 7.	2.6	66
41	The Use of Umbelliferone in the Synthesis of New Heterocyclic Compounds. <i>Molecules</i> , 2011, 16, 6833-6843.	3.8	63
42	Effect of nitrogen precursors on the electrochemical performance of nitrogen-doped reduced graphene oxide towards oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2016, 677, 112-120.	5.5	61
43	Coumarins as Potential Antioxidant Agents Complemented with Suggested Mechanisms and Approved by Molecular Modeling Studies. <i>Molecules</i> , 2016, 21, 135.	3.8	60
44	Electrochemical Study on Newly Synthesized Chlorocurcumin as an Inhibitor for Mild Steel Corrosion in Hydrochloric Acid. <i>Materials</i> , 2013, 6, 5466-5477.	2.9	55
45	Improved membrane and electrode assemblies for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2003, 114, 195-202.	7.8	54
46	Performance of direct methanol fuel cell with a palladium-silica nanofibre/Nafion composite membrane. <i>Energy Conversion and Management</i> , 2013, 75, 718-726.	9.2	53
47	Hydrogen Peroxide Scavenging Activity of Novel Coumarins Synthesized Using Different Approaches. <i>PLoS ONE</i> , 2015, 10, e0132175.	2.5	53
48	Synthesis and characterization of Cu-Al layered double hydroxides. <i>Materials Research Bulletin</i> , 2001, 36, 193-198.	5.2	50
49	Experimental and theoretical study on the corrosion inhibition of mild steel by nonanedioic acid derivative in hydrochloric acid solution. <i>Scientific Reports</i> , 2022, 12, 4705.	3.3	50
50	Nitrogen-containing carbon nanotubes as cathodic catalysts for proton exchange membrane fuel cells. <i>Diamond and Related Materials</i> , 2012, 22, 12-22.	3.9	47
51	Inhibition of aluminum corrosion by phthalazinone and synergistic effect of halide ion in 1.0M HCl. <i>Current Applied Physics</i> , 2012, 12, 325-330.	2.4	47
52	Influence of nitrogen doping on carbon nanotubes towards the structure, composition and oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9421-9430.	7.1	46
53	Adsorption Kinetics of 4-Amino-5-Phenyl-4H-1, 2, 4-Triazole-3-Thiol on Mild Steel Surface. <i>Portugaliae Electrochimica Acta</i> , 2010, 28, 221-230.	1.1	46
54	Synthesis of silver/nitrogen-doped reduced graphene oxide through a one-step thermal solid-state reaction for oxygen reduction in an alkaline medium. <i>Journal of Power Sources</i> , 2016, 324, 412-420.	7.8	45

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55	Kinetic behavior of mild steel corrosion inhibition by 4-amino-5-phenyl-4H-1,2,4-triazole-3-thiol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2010, 41, 126-128.	5.3	44
56	Synergistic of a coumarin derivative with potassium iodide on the corrosion inhibition of aluminum alloy in 1.0 M H ₂ SO ₄ . <i>Metals and Materials International</i> , 2014, 20, 459-467.	3.4	44
57	Novel macromolecules derived from coumarin: synthesis and antioxidant activity. <i>Scientific Reports</i> , 2015, 5, 11825.	3.3	43
58	Effects of temperature and backpressure on the performance degradation of MEA in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10960-10968.	7.1	41
59	Quantum chemical assessment of benzimidazole derivatives as corrosion inhibitors. <i>Chemistry Central Journal</i> , 2014, 8, 21.	2.6	40
60	Quantum chemical studies on corrosion inhibition for series of thio compounds on mild steel in hydrochloric acid. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 551-555.	5.8	38
61	A review on synthesis and characterization of solid acid materials for fuel cell applications. <i>Journal of Power Sources</i> , 2016, 322, 77-92.	7.8	38
62	Antioxidant and antimicrobial activities of novel quinazolinones. <i>Medicinal Chemistry Research</i> , 2014, 23, 236-242.	2.4	37
63	Synthesis, inhibition effects and quantum chemical studies of a novel coumarin derivative on the corrosion of mild steel in a hydrochloric acid solution. <i>Chemistry Central Journal</i> , 2016, 10, 23.	2.6	35
64	Application of Sn-activated carbon in pressure swing adsorption for purification of H ₂ . <i>Chemical Engineering Science</i> , 2000, 55, 4745-4755.	3.8	34
65	Gas chromatographic determination of eugenol in ethanol extract of cloves. <i>Biomedical Applications</i> , 1996, 679, 193-195.	1.7	33
66	Effect of Multipath Laser Shock Processing on Microhardness, Surface Roughness, and Wear Resistance of 2024-T3 Al Alloy. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	2.1	33
67	The Impact of Loading and Temperature on the Oxygen Reduction Reaction at Nitrogen-doped Carbon Nanotubes in Alkaline Medium. <i>Electrochimica Acta</i> , 2014, 129, 47-54.	5.2	33
68	Antioxidant Activities of 4-Methylumbelliferone Derivatives. <i>PLoS ONE</i> , 2016, 11, e0156625.	2.5	33
69	Simultaneous removal of AOX and COD from real recycled paper wastewater using GAC-SBBR. <i>Journal of Environmental Management</i> , 2013, 121, 80-86.	7.8	32
70	Performance optimisation of PEM fuel cell during MEA fabrication. <i>Energy Conversion and Management</i> , 2004, 45, 3239-3249.	9.2	30
71	Synthesis and characterization of polyesters derived from glycerol, azelaic acid, and succinic acid. <i>Green Chemistry Letters and Reviews</i> , 2015, 8, 31-38.	4.7	30
72	Extraction, preparation and application of pigments from <i>Cordyline fruticosa</i> and <i>Hylocereus polyrhizus</i> as sensitizers for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 179, 23-31.	3.9	30

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73	Preparation, characterization, and theoretical studies of azelaic acid derived from oleic acid by use of a novel ozonolysis method. <i>Research on Chemical Intermediates</i> , 2012, 38, 659-668.	2.7	28
74	Photocatalytic degradation of chlorophenols under direct solar radiation in the presence of ZnO catalyst. <i>Research on Chemical Intermediates</i> , 2013, 39, 1981-1996.	2.7	27
75	Galvanic corrosion of aluminum alloy (Al2024) and copper in 1.0M hydrochloric acid solution. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 818-822.	2.7	26
76	Curcuminoids as antioxidants and theoretical study of stability of curcumin isomers in gaseous state. <i>Research on Chemical Intermediates</i> , 2013, 39, 4047-4059.	2.7	25
77	Adsorption isotherm mechanism of amino organic compounds as mild steel corrosion inhibitors by electrochemical measurement method. <i>Central South University</i> , 2010, 17, 34-39.	0.5	24
78	The role of 4-amino-5-phenyl-4H-1,2,4-triazole-3-thiol in the inhibition of nickel-aluminum bronze alloy corrosion: electrochemical and DFT studies. <i>Research on Chemical Intermediates</i> , 2012, 38, 91-103.	2.7	24
79	Heat Transfer Enhancement of Laminar Nanofluids Flow in a Circular Tube Fitted with Parabolic-Cut Twisted Tape Inserts. <i>Scientific World Journal, The</i> , 2014, 2014, 1-7.	2.1	24
80	Study of the plasticising effect on polymer and its development in fuel cell application. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 794-805.	16.4	24
81	Synthesis and Antioxidant Activities of Novel 5-Chlorocurcumin, Complemented by Semiempirical Calculations. <i>Bioinorganic Chemistry and Applications</i> , 2013, 2013, 1-7.	4.1	23
82	Solar photocatalytic degradation of 2-chlorophenol with ZnO nanoparticles: optimisation with D-optimal design and study of intermediate mechanisms. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2804-2819.	5.3	23
83	Optimization of hot pressing parameters in membrane electrode assembly fabrication by response surface method. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9484-9493.	7.1	22
84	Novel Pyranopyrazoles: Synthesis and Theoretical Studies. <i>Molecules</i> , 2012, 17, 10377-10389.	3.8	21
85	The effect of impregnation of activated carbon with SnCl ₂ .2H ₂ O on its porosity, surface composition and CO gas adsorption. <i>Carbon</i> , 2002, 40, 1929-1936.	10.3	20
86	Numerical Investigation of Heat Transfer and Friction Factor Characteristics in a Circular Tube Fitted with V-Cut Twisted Tape Inserts. <i>Scientific World Journal, The</i> , 2013, 2013, 1-8.	2.1	20
87	Photostabilizing Efficiency of PVC in the Presence of Schiff Bases as Photostabilizers. <i>Molecules</i> , 2015, 20, 19886-19899.	3.8	20
88	Nitrogen-doped carbon xerogels catalyst for oxygen reduction reaction: Improved structural and catalytic activity by enhancing nitrogen species and cobalt insertion. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28789-28802.	7.1	20
89	Inhibition of Aluminum Alloy Corrosion in 0.5M Nitric Acid Solution by 4-(4-Dimethylxazolidine-2-thione). <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 394-398.	2.5	19
90	Synthesis and Characterization of Some New 4-Hydroxy-coumarin Derivatives. <i>Molecules</i> , 2014, 19, 11791-11799.	3.8	19

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91	Effect of silica on the thermal behaviour and ionic conductivity of mixed salt solid acid composites. <i>Journal of Alloys and Compounds</i> , 2017, 690, 896-902.	5.5	19
92	Spectra and structure of silicon compounds. XVII Raman and infrared spectra and vibrational assignment for hexamethyldisilane and ab initio calculations for disilane and hexamethyldisilane. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994, 50, 639-660.	0.1	18
93	Characterization of electrodes and performance tests on MEAs with varying platinum content and under various operational conditions. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9431-9437.	7.1	18
94	Effect of carbon precursor and initial pH on cobalt-doped carbon xerogel for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11047-11055.	7.1	17
95	Photodegradation of chlorophenolic compounds using zinc oxide as photocatalyst: experimental and theoretical studies. <i>Research on Chemical Intermediates</i> , 2012, 38, 995-1005.	2.7	16
96	Quantum chemical calculation for the inhibitory effect of compounds. <i>Journal of Structural Chemistry</i> , 2013, 54, 301-308.	1.0	16
97	Thermodynamic and Theoretical Study of the Preparation of New Buckyballs from Corannulene, Coronene, and Circulene. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	2.7	16
98	Novel Approach: Tungsten Oxide Nanoparticle as a Catalyst for Malonic Acid Ester Synthesis via Ozonolysis. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	16
99	Comparative data on corrosion protection of mild steel in HCl using two new thiazoles. <i>Data in Brief</i> , 2022, 40, 107838.	1.0	16
100	Optimization of dye extraction from <i>Cordyline fruticosa</i> via response surface methodology to produce a natural sensitizer for dye-sensitized solar cells. <i>Results in Physics</i> , 2016, 6, 520-529.	4.1	15
101	Electrochemical and quantum chemical studies on phthalhydrazide as corrosion inhibitor for mild steel in 1M HCl solution. <i>Research on Chemical Intermediates</i> , 2012, 38, 453-461.	2.7	14
102	<sc>CFD</sc> Simulation of Heat Transfer Augmentation in a Circular Tube Fitted with Alternative Axis Twisted Tape in Laminar Flow under a Constant Heat Flux. <i>Heat Transfer - Asian Research</i> , 2014, 43, 384-396.	2.8	14
103	Synthesis of new coumarins complemented by quantum chemical studies. <i>Research on Chemical Intermediates</i> , 2016, 42, 3905-3918.	2.7	14
104	The effect of varying N/C ratios of nitrogen precursors during non-metal graphene catalyst synthesis. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9069-9076.	7.1	14
105	Chlorophenols in Tigris River and Drinking Water of Baghdad, Iraq. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011, 87, 106-112.	2.7	13
106	Corrosion Inhibition of Mild Steel in 1.0 M HCl by Amino Compound: Electrochemical and DFT Studies. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 3379-3386.	2.2	13
107	Enhancement of the Wear Resistance and Microhardness of Aluminum Alloy by Nd:YAG Laser Treatment. <i>Scientific World Journal</i> , The, 2014, 2014, 1-5.	2.1	13
108	Green Antioxidants: Synthesis and Scavenging Activity of Coumarin-Thiadiazoles as Potential Antioxidants Complemented by Molecular Modeling Studies. <i>Free Radicals and Antioxidants</i> , 2016, 6, 173-177.	0.3	13

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109	Temperature-dependent diffusion coefficient of soluble substances during ethanol extraction of clove. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1996, 73, 603-610.	1.9	12
110	XRD and TPR Studies of Cu-Al Hydrotalcite Derived Highly Dispersed Mixed Metal Oxides. <i>Reaction Kinetics and Catalysis Letters</i> , 2000, 70, 303-310.	0.6	12
111	Corrosion Inhibition of Copper-nickel Alloy: Experimental and Theoretical Studies. <i>Journal of the Korean Chemical Society</i> , 2012, 56, 406-415.	0.2	12
112	Separation and identification of eugenol in ethanol extract of cloves by reversed-phase high-performance liquid chromatography. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1995, 72, 1231-1233.	1.9	11
113	Fabrication of gas diffusion layer based on robotic spraying technique for proton exchange membrane fuel cell application. <i>Energy Conversion and Management</i> , 2009, 50, 1419-1425.	9.2	11
114	Chemical Health Risk Assessment at The Chemical and Biochemical Engineering Laboratory. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 60, 300-307.	0.5	11
115	Spectra and structure of silicon-containing compounds. XVII. Vibrational and microwave spectra, molecular structure, barrier to internal rotation and ab initio calculations of methyltrichlorosilane. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994, 50, 621-637.	0.1	10
116	Industrial Talk and Visit for Students. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 18, 674-682.	0.5	10
117	Inhibition of galvanic corrosion by 4-amino-5-phenyl-4H-1, 2, 4-triazole-3-thiol. <i>International Journal of Surface Science and Engineering</i> , 2011, 5, 226.	0.4	10
118	Direct Acetylation and Determination of Chlorophenols in Aqueous Samples by Gas Chromatography Coupled with an Electron-Capture Detector. <i>Journal of Chromatographic Science</i> , 2012, 50, 564-568.	1.4	10
119	Theoretical Study for the Preparation of Sub-Carbon Nano Tubes from the Cyclic Polymerization Reaction of Two Molecules from Corannulene, Coronene and Circulene Aromatic Compounds. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 2453-2457.	0.4	10
120	Synthesis of Vanadium Pentoxide Nanoparticles as Catalysts for the Ozonation of Palm Oil. <i>Ozone: Science and Engineering</i> , 2016, 38, 36-41.	2.5	10
121	MAFRAM—A new fate and risk assessment methodology for non-volatile organic chemicals. <i>Journal of Hazardous Materials</i> , 2010, 181, 1080-1087.	12.4	9
122	Synthesis, antimicrobial and antioxidant activities of 5-((2-oxo-2H-chromen-7-yloxy)methyl)-1,3,4-thiadiazol-2(3H)-one derived from umbelliferone. <i>Chemistry of Natural Compounds</i> , 2013, 48, 950-954.	0.8	9
123	Experimental and Numerical Investigations of Heat Transfer Characteristics for Impinging Swirl Flow. <i>Advances in Mechanical Engineering</i> , 2014, 6, 631081.	1.6	9
124	The extraction and absorption study of natural dye from Areca catechu for dye sensitized solar cell application. <i>AIP Conference Proceedings</i> , 2017, . .	0.4	9
125	Performance evaluation of a granular activated carbon-sequencing batch biofilm reactor pilot plant system used in treating real wastewater from recycled paper industry. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 915-926.	2.2	8
126	Effect of hydraulic retention time (HRT) on pentachlorophenol (PCP) and COD removal in a pilot GAC-SBBR system for the post-treatment of recycled paper mill wastewater. <i>Desalination and Water Treatment</i> , 2012, 48, 50-59.	1.0	8

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127	CFD Simulation of Heat Transfer and Friction Factor Augmentation in a Circular Tube Fitted with Elliptic-Cut Twisted Tape Inserts. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7.	1.1	8
128	CFD Analysis of Heat Transfer and Friction Factor Characteristics in a Circular Tube Fitted with Quadrant-Cut Twisted Tape Inserts. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	1.1	8
129	Removal of Adsorbable Organic Halides (AOX) from Recycled Pulp and Paper (P&P) Mill Effluent Using Granular Activated Carbonâ€ Sequencing Batch Biofilm Reactor (GAC-SBBR). <i>Modern Applied Science</i> , 2009, 2, .	0.6	6
130	Assessment of Programme Outcomes Through Exit Survey of Chemical/Biochemical Engineering Students. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 18, 39-48.	0.5	6
131	CFD analysis of heat transfer and friction factor characteristics in a circular tube fitted with horizontal baffles twisted tape inserts. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 50, 012034.	0.6	6
132	Review on Biopolymer Membranes for Fuel Cell Applications. <i>Applied Mechanics and Materials</i> , 0, 291-294, 614-617.	0.2	6
133	Effect of Solvents on Extraction and Adsorption of Natural Dyes Extracted from <i>Cordyline fruticosa</i> and <i>Hylocereus polyrhizus</i> . <i>Asian Journal of Chemistry</i> , 2014, 26, 6285-6288.	0.3	6
134	Modeling the fate and transport of non-volatile organic chemicals in the agro-ecosystem: A case study of Cameron Highlands, Malaysia. <i>Chemical Engineering Research and Design</i> , 2009, 87, 121-134.	5.6	5
135	The legend of 4-aminocoumarin: use of the DelÃ©pine reaction for synthesis of 4-aminocoumarin. <i>Research on Chemical Intermediates</i> , 2013, 39, 1385-1391.	2.7	5
136	Comparative Studies on Thermal Performance of Conic Cut Twist Tape Inserts with SiO ₂ and TiO ₂ Nanofluids. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-14.	2.7	5
137	Cobalt-doped carbon xerogel with different initial pH values toward oxygen reduction. <i>AIP Conference Proceedings</i> , 2017, . .	0.4	5
138	CONDUCTIVITY AND THERMAL STABILITY OF SOLID ACID COMPOSITES CsH ₂ PO ₄ /NaH ₂ PO ₄ /SiO ₂ . <i>Malaysian Journal of Analytical Sciences</i> , 2016, 20, 633-641.	0.1	5
139	KINETIC EVALUATION AND PROCESS PERFORMANCE OF A PILOT GAC-SBBR SYSTEM TREATING RECYCLED PAPER INDUSTRY WASTEWATER. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 829-839.	0.6	5
140	Solar Photocatalytic Degradation of 2,4-Dichlorophenol by TiO ₂ Nanoparticle Prepared by Sol-Gel Method. <i>Advanced Materials Research</i> , 2011, 233-235, 3032-3035.	0.3	4
141	Analysis and Optimization of Operating Parameters of a Membraneâ€ Electrode Assembly. <i>Chemical Engineering and Technology</i> , 2011, 34, 439-444.	1.5	4
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